

Dear Dr. Denis-Didier Rousseau,

Thank you for the comments and constructive suggestions from the referees regarding our manuscript “A chironomid-based record of temperature variability during the past 4000 years in northern China and its possible societal implications” (ID: cp-2017-126). We find these comments and suggestions very helpful, and have carefully considered them in our revision. The revised manuscript includes the following points:

- 1) We have corrected all the biases in the statement, analysis and interpretation, as recommended by the referees.
- 2) We have corrected all the technical mistakes.
- 3) All the revisions are marked in **red** in the revised manuscript. We respond to the comments following their questions below (responses are marked in **blue**).

Sincerely yours,

Haipeng Wang and Jianhui Chen (on behalf of all authors)